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REFERENCES

- Johnson CN, Bowers JC, Griffith KJ, Molina V, Clostio RW, Pei S, Laws E, Paranjpye RN, Strom MS, Chen A, Hasan NA, Huq A, Noriega NF III, Grimes DJ, Colwell RR. 2012. Ecology of *Vibrio parahaemolyticus* and *Vibrio vulnificus* in the coastal and estuarine waters of Louisiana, Maryland, Mississippi, and Washington (United States). *Appl. Environ. Microbiol.* 78:7249–7257. <http://dx.doi.org/10.1128/AEM.01296-12>.
- Joseph SW, Colwell RR, Kaper JB. 1982. *Vibrio parahaemolyticus* and related halophilic vibrios. *Crit. Rev. Microbiol.* 10:77–124. <http://dx.doi.org/10.3109/10408418209113506>.
- Kaneko T, Colwell RR. 1973. Ecology of *Vibrio parahaemolyticus* in Chesapeake Bay. *J. Bacteriol.* 113:24–32.
- Krantz GE, Colwell RR, Lovelace E. 1969. *Vibrio parahaemolyticus* from the blue crab *Callinectes sapidus* in Chesapeake Bay. *Science* 164:1286–1287. <http://dx.doi.org/10.1126/science.164.3885.1286>.
- Daniels NA, MacKinnon L, Bishop R, Altekruze S, Ray B, Hammond RM, Thompson S, Wilson S, Bean NH, Griffin PM, Slutsker L. 2000. *Vibrio parahaemolyticus* infections in the United States, 1973–1998. *J. Infect. Dis.* 181:1661–1666. <http://dx.doi.org/10.1086/315459>.
- Scallan E, Hoekstra RM, Angulo FJ, Tauxe RV, Widdowson MA, Roy SL, Jones JL, Griffin PM. 2011. Foodborne illness acquired in the United States—major pathogens. *Emerg. Infect. Dis.* 17:7–15. <http://dx.doi.org/10.3201/eid1701.P11101>.
- Su YC, Liu C. 2007. *Vibrio parahaemolyticus*: a concern of seafood safety. *Food Microbiol.* 24:549–558. <http://dx.doi.org/10.1016/j.fm.2007.01.005>.
- DePaola A, Ulaszek J, Kaysner CA, Tenge BJ, Nordstrom JL, Wells J, Puhr N, Gendel SM. 2003. Molecular, serological, and virulence characteristics of *Vibrio parahaemolyticus* isolated from environmental, food, and clinical sources in North America and Asia. *Appl. Environ. Microbiol.* 69:3999–4005. <http://dx.doi.org/10.1128/AEM.69.7.3999-4005.2003>.
- Johnson CN, Flowers AR, Young VC, Gonzalez-Escalona N, DePaola A, Noriega NF III, Grimes DJ. 2009. Genetic relatedness among *tdh+* and *trh+* *Vibrio parahaemolyticus* cultured from Gulf of Mexico oysters (*Crassostrea virginica*) and surrounding water and sediment. *Microb. Ecol.* 57:437–443. <http://dx.doi.org/10.1007/s00248-008-9418-3>.
- Paranjpye R, Hamel OS, Stojanovski A, Liermann M. 2012. Genetic diversity of clinical and environmental *Vibrio parahaemolyticus* strains from the Pacific Northwest. *Appl. Environ. Microbiol.* 78:8631–8638. <http://dx.doi.org/10.1128/AEM.01531-12>.
- Parvathi A, Kumar HS, Bhanumathi A, Ishibashi M, Nishibuchi M, Karunasagar I, Karunasagar I. 2006. Molecular characterization of thermostable direct haemolysin-related haemolysin (TRH)-positive *Vibrio parahaemolyticus* from oysters in Mangalore, India. *Environ. Microbiol.* 8:997–1004. <http://dx.doi.org/10.1111/j.1462-2920.2006.00990.x>.
- Makino K, Oshima K, Kurokawa K, Yokoyama K, Uda T, Tagomori K, Iijima Y, Najima M, Nakano M, Yamashita A, Kubota Y, Kimura S, Yasunaga T, Honda T, Shinagawa H, Hattori M, Iida T. 2003. Genome sequence of *Vibrio parahaemolyticus*: a pathogenic mechanism distinct from that of *V. cholerae*. *Lancet* 361:743–749. [http://dx.doi.org/10.1016/S0140-6736\(03\)12659-1](http://dx.doi.org/10.1016/S0140-6736(03)12659-1).
- Hurley CC, Quirke A, Reen FJ, Boyd EF. 2006. Four genomic islands that mark post-1995 pandemic *Vibrio parahaemolyticus* isolates. *BMC Genomics* 7:104. <http://dx.doi.org/10.1186/1471-2164-7-104>.
- Jensen RV, Depasquale SM, Harbolick EA, Hong T, Kernell AL, Kruchko DH, Modise T, Smith CE, McCarter LL, Stevens AM. 2013. Complete genome sequence of pre-pandemic *Vibrio parahaemolyticus* BB22OP. *Genome Announc.* 1(1):e00002-12.
- Boyd EF, Cohen AL, Naughton LM, Ussery DW, Binnewies TT, Stine OC, Parent MA. 2008. Molecular analysis of the emergence of pandemic *Vibrio parahaemolyticus*. *BMC Microbiol.* 8:110. <http://dx.doi.org/10.1186/1471-2180-8-110>.
- Martinez-Urtaza J, Lozano-Leon A, DePaola A, Ishibashi M, Shimada K, Nishibuchi M, Liebana E. 2004. Characterization of pathogenic *Vibrio parahaemolyticus* isolates from clinical sources in Spain and comparison with Asian and North American pandemic isolates. *J. Clin. Microbiol.* 42:4672–4678. <http://dx.doi.org/10.1128/JCM.42.10.4672-4678.2004>.
- Chin CS, Alexander DH, Marks P, Klammer AA, Drake J, Heiner C, Clum A, Copeland A, Huddleston J, Eichler EE, Turner SW, Korlach J. 2013. Nonhybrid, finished microbial genome assemblies from long-read SMRT sequencing data. *Nat. Methods* 10:563–569. <http://dx.doi.org/10.1038/nmeth.2474>.
- Kislyuk AO, Katz LS, Agrawal S, Hagen MS, Conley AB, Jayaraman P, Nelakuditi V, Humphrey JC, Sammons SA, Govil D, Mair RD, Tatti KM, Tondella ML, Harcourt BH, Mayer LW, Jordan IK. 2010. A computational genomics pipeline for prokaryotic sequencing projects. *Bioinformatics* 26:1819–1826. <http://dx.doi.org/10.1093/bioinformatics/btq284>.
- Tamura K, Peterson D, Peterson N, Stecher G, Nei M, Kumar S. 2011. MEGA5: molecular evolutionary genetics analysis using maximum likelihood, evolutionary distance, and maximum parsimony methods. *Mol. Biol. Evol.* 28:2731–2739. <http://dx.doi.org/10.1093/molbev/msr121>.
- Holt C, Yandell M. 2011. MAKER2: an annotation pipeline and genome-database management tool for second-generation genome projects. *BMC Bioinformatics* 12:491. <http://dx.doi.org/10.1186/1471-2105-12-491>.
- Aziz RK, Bartels D, Best AA, DeJongh M, Disz T, Edwards RA, Formsma K, Gerdes S, Glass EM, Kubal M, Meyer F, Olsen GJ, Olson R, Osterman AL, Overbeek RA, McNeil LK, Paarmann D, Paczian T, Parrello B, Pusch GD, Reich C, Stevens R, Vassieva O, Vonstein V, Wilke A, Zagnitko O. 2008. The RAST server: Rapid Annotations using Subsystems Technology. *BMC Genomics* 9:75. <http://dx.doi.org/10.1186/1471-2164-9-75>.
- Zhou Y, Liang Y, Lynch KH, Dennis JJ, Wishart DS. 2011. PHAST: a fast phage search tool. *Nucleic Acids Res.* 39:W347–W352. <http://dx.doi.org/10.1093/nar/gkr485>.